

Federal Energy Management Program

USGBC LEED Certified Federal Buildings

Updated October 2004



National Oceanic & Atmospheric Administration

NATIONAL WEATHER SERVICE CARIBOU, MAINE LEED SILVER CERTIFIED



- 50% of building materials recycled content
- Natural daylighting primary source of daytime lighting
- 75% of total project waste diverted



National Oceanic & Atmospheric Administration

West Coast/Alaska Tsunami Warning Center Palmer, Alaska LEED Certified

- 30 percent less energy than ASHRAE 90.1 guidelines
- High efficiency HVAC systems
- Over 75% of the waste generated during construction demolition recycled





Department of Defense – Air Force

PHYSICAL FITNESS CENTER Barksdale AFB, LA LEED BRONZE CERTIFIED



Recycled Rubber Flooring



Recycled Plastic Lockers



Reflective Parking Surface



4



Department of Defense – Navy

Bachelor Enlisted Quarters Great Lakes Training Center Great Lakes, IL LEED Certified

- Reused site of outdated barracks and recreation facilities
- Exceeds ASHRAE 90.1-1989
 prescriptive envelope standards
 for Chicago area by 24% through
 use of R-23 wall and R-30 roof
 insulation and reflective roof
- 31% of materials by cost produced locally, including all concrete





Department of Defense – Pentagon Renovation Program

Metro Entrance Facility Arlington, VA LEED Certified



- ENERGY STAR® and low-emissivity roofing for 75% of roof area
- Benches constructed from Forest Stewardship Council wood
- Prevented loss of soil during construction



Department of Defense – Pentagon Renovation Program

Athletic Center Arlington, VA LEED Certified

- Green roof provides outdoor garden space, improved insulation, natural water filtration system, and reduced stormwater runoff
- 75% heat recovery from heat exchanger for lap pool and spa
- Bamboo flooring for auditorium stage and waiting area





Department of Interior – Bureau of Indian Affairs / Army Corps of Engineers

Baca/Dlo'ay azhi Community School Prewitt, NM LEED Certified



- Energy automation systems
- Natural daylighting devices
- Native plants landscape
- Recycled materials



Department of Energy

Argonne National Laboratory Warehouse Space Argonne, IL LEED Silver Certified

- Energy-efficient mechanical systems
- Rooftop rain catchment system



- Recycled building materials
- Reduced water requirements by an estimated 40% with native landscaping



Department of Energy

ORNL East Campus Modernization Oak Ridge, TN LEED Certified



- Reflective roof
- Primary-secondary chilled water loops and highefficiency chillers
- Building automation, monitoring and controls
- Low amount of impervious surfaces and native or adaptive species
- 90% of furniture installed with low VOC emissions



Department of Energy

Bonneville Power Administration, Ampere Annex Vancouver, WA LEED Silver Certified





- Overall 21.85% energy savings compared to ASHRAE 90.1-1999
- Water use reduction of 45% through water-efficient fixtures
- 91% of construction demolition and debris reclaimed and recycled
- 100% of spaces with views to the outdoors



National Park Service

South Rim Maintenance and Warehouse Facility Grand Canyon, AZ LEED Certified

- Recycled materials
- Insulated building envelopes
- Optimal indoor air quality
- Minimized vegetation cleared from the site





Department of Transportation – Federal Aviation Administration

Seattle Terminal Radar Approach Control Facility Burien, WA LEED Gold Certified



- 33% water use reduction
- 14% energy savings
- 91% construction waste diversion
- 129% weighted average recycled content materials
- 49% locally fabricated manufactured materials
- 60% FSC-certified wood products
- 80% daylit spaces
- 91% exterior view spaces



Energy Efficiency and Renewable Energy Environmental Protection Agency

New England Regional Laboratory Chelmsford, MA LEED Gold Certified



- 100% green power from wind power
- Over 50% of solid waste generated from construction diverted from the landfill and recycled
- Waterless urinals



Energy Efficiency and Renewable Energy Environmental Protection Agency

Kansas EPA Laboratory Kansas City, KS LEED Gold Certified



72% of construction debris diverted from landfills



Energy-Efficient small water-cooled chillers



Clerestory windows



Xeriscaping



General Services Administration

Federal Courthouse Building Youngstown, OH LEED Certified



- 600,000 pounds of recycled concrete crushed and reused
- 22% in heating costs and
 10% in electricity bills saved
- Reused earth and foundation materials excavated from the original site, saving over \$70,000



Social Security Administration

Child Care Center Woodlawn, MD LEED Certified



- Over 50% of building materials recycled content
- Water efficient landscaping reduced runoff by 50%
- Alternative and public transportation
- 7% increase in boiler efficiency



Social Security Administration

Annex Building Renovation Baltimore, MD LEED Certified



Total energy savings of 12% below ASHRAE 90.1-1999



77% of building's exterior and 76% of interior construction materials reused



79% of construction materials recycled/salvaged